

PCT REQUEST

1/3 b

20030076-PCT

Original (for SUBMISSION) - printed on 25.11.2003 12:34:10 PM

| | | |
|---------|---|--|
| 0 | For receiving Office use only | |
| 0-1 | International Application No. | |
| 0-2 | International Filing Date | |
| 0-3 | Name of receiving Office and "PCT International Application" | |
| 0-4 | Form - PCT/RO/101 PCT Request | |
| 0-4-1 | Prepared using | PCT-EASY Version 2.92 (updated 01.11.2003) |
| 0-5 | Petition The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty | |
| 0-6 | Receiving Office (specified by the applicant) | United States Patent and Trademark Office (USPTO) (RO/US) |
| 0-7 | Applicant's or agent's file reference | 20030076-PCT |
| I | Title of invention | JOINT SYMBOL, AMPLITUDE, AND RATE ESTIMATOR |
| II | Applicant This person is: | applicant only |
| II-1 | Applicant for | all designated States except US |
| II-4 | Name | BAE SYSTEMS INFORMATION AND ELECTRONIC SYSTEMS INTEGRATION INC. |
| II-5 | Address: | 65 Spit Brook Road Nashua, NH 03061 |
| II-6 | State of nationality | United States of America |
| II-7 | State of residence | US |
| II-8 | Telephone No. | 603-885-3751 |
| II-9 | Facsimile No. | 603-885-2167 |
| III-1 | Applicant and/or inventor This person is: | applicant and inventor |
| III-1-1 | Applicant for | US only |
| III-1-4 | Name (LAST, First) | MCELWAIN, Thomas, P. |
| III-1-5 | Address: | 21 Sarah Drive Merrimack, NH 03054 |
| III-1-6 | State of nationality | United States of America |
| III-1-7 | State of residence | US |

PCT REQUEST

2/56

20030076-PCT

Original (for SUBMISSION) - printed on 25.11.2003 12:34:10 PM

| | | |
|--------|---|---|
| IV-1 | Agent or common representative; or address for correspondence The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as: Name (LAST, First) | agent ASMUS, Scott, J. |
| IV-1-1 | Address: | PO Box 3445 |
| IV-1-2 | | Nashua, NH 03061-3445 |
| IV-1-3 | Telephone No. | United States of America |
| IV-1-4 | Facsimile No. | 603.886.6100 |
| IV-1-5 | e-mail | 603.886.4796 |
| IV-1-5 | Agent's registration No. | Info@MaineandAsmus.com |
| IV-1-5 | | 42,269 |
| IV-2 | Additional agent(s) | additional agent(s) with same address as first named agent |
| IV-2-1 | Name(s) | MAINE, Vernon, C. (37,389); MALONEY, Neil, F. (42,833); CERNOTA, Andrew, P. (52,711) |
| V | Designation of States | |
| V-1 | Regional Patent (other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned) | <p>AP: BW GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW and any other State which is a Contracting State of the Harare Protocol and of the PCT</p> <p>EA: AM AZ BY KG KZ MD RU TJ TM and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT</p> <p>EP: AT BE BG CH&LI CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE SI SK TR and any other State which is a Contracting State of the European Patent Convention and of the PCT</p> <p>OA: BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG and any other State which is a member State of OAPI and a Contracting State of the PCT</p> |

PCT REQUEST

356

20030076-PCT

Original (for SUBMISSION) - printed on 25.11.2003 12:34:10 PM

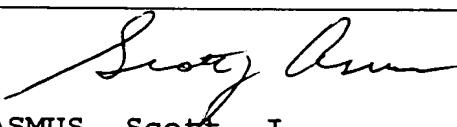
| | | |
|--------|---|---|
| V-2 | National Patent (other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned) | AE AG AL AM AT (patent and utility model) AU AZ BA BB BG BR BW BY BZ CA CH&LI CN CO CR CU CZ (patent and utility model) DE (patent and utility model) DK (patent and utility model) DM DZ EC EE (patent and utility model) EG ES FI (patent and utility model) GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PG PH PL PT (patent and utility model) RO RU SC SD SE SG SK (patent and utility model) SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW |
| V-5 | Precautionary Designation Statement In addition to the designations made under items V-1, V-2 and V-3, the applicant also makes under Rule 4.9(b) all designations which would be permitted under the PCT except any designation(s) of the State(s) indicated under item V-6 below. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. | |
| V-6 | Exclusion(s) from precautionary designations | NONE |
| VI-1 | Priority claim of earlier national application | |
| VI-1-1 | Filing date | 14 April 2003 (14.04.2003) |
| VI-1-2 | Number | 60/462,657 |
| VI-1-3 | Country | US |
| VI-2 | Priority document request The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s): | VI-1 |
| VII-1 | International Searching Authority Chosen | United States Patent and Trademark Office (USPTO) (ISA/US) |

PCT REQUEST

4/56

20030076-PCT

Original (for SUBMISSION) - printed on 25.11.2003 12:34:10 PM

| | | | |
|--------|--|--|-----------------------------|
| VIII | Declarations | Number of declarations | |
| VIII-1 | Declaration as to the identity of the inventor | - | |
| VIII-2 | Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent | - | |
| VIII-3 | Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application | - | |
| VIII-4 | Declaration of inventorship (only for the purposes of the designation of the United States of America) | - | |
| VIII-5 | Declaration as to non-prejudicial disclosures or exceptions to lack of novelty | - | |
| IX | Check list | number of sheets | electronic file(s) attached |
| IX-1 | Request (including declaration sheets) | 56 | - |
| IX-2 | Description | 40 | - |
| IX-3 | Claims | 7 | - |
| IX-4 | Abstract | 1 | EZABST00.TXT |
| IX-5 | Drawings | 6 | - |
| IX-7 | TOTAL | 59 60 | |
| IX-8 | Accompanying items | paper document(s) attached | electronic file(s) attached |
| IX-17 | Fee calculation sheet | ✓ | - |
| IX-17 | PCT-EASY diskette | - | Diskette |
| IX-19 | Figure of the drawings which should accompany the abstract | 2 | |
| IX-20 | Language of filing of the international application | English | |
| X-1 | Signature of applicant, agent or common representative |  | |
| X-1-1 | Name (LAST, First) | ASMUS, Scott, J. | |

FOR RECEIVING OFFICE USE ONLY

| | | |
|--------|---|--------|
| 10-1 | Date of actual receipt of the purported international application | |
| 10-2 | Drawings: | |
| 10-2-1 | Received | |
| 10-2-2 | Not received | |
| 10-3 | Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application | |
| 10-4 | Date of timely receipt of the required corrections under PCT Article 11(2) | |
| 10-5 | International Searching Authority | ISA/US |
| 10-6 | Transmittal of search copy delayed until search fee is paid | |

PCT REQUEST

5/5b

20030076-PCT

Original (for SUBMISSION) - printed on 25.11.2003 12:34:10 PM

FOR INTERNATIONAL BUREAU USE ONLY

| | | |
|------|---|--|
| 11-1 | Date of receipt of the record copy by the International Bureau | |
|------|---|--|

Box No. VIII (iv) DECLARATION: INVENTORSHIP (only for the purposes of the designation of the United States of America)
 The declaration must conform to the following standardized wording provided for in Section 214; see Notes to Boxes Nos. VIII, VIII (i) to (v) (in general) and the specific Notes to Box No. VIII (iv). If this Box is not used, this sheet should not be included in the request.

**Declaration of inventorship (Rules 4.17(iv) and 516iv.1(u)(iv))
 for the purposes of the designation of the United States of America:**

I hereby declare that I believe I am the original, first and sole (if only one inventor is listed below) or joint (if more than one inventor is listed below) inventor of the subject matter which is claimed and for which a patent is sought.

This declaration is directed to the international application of which it forms a part (if filing declaration with application).

This declaration is directed to international application No. PCT/..... (if furnishing declaration pursuant to Rule 26ter).

I hereby declare that my residence, mailing address, and citizenship are as stated next to my name.

I hereby state that I have reviewed and understand the contents of the above-identified international application, including the claims of said application. I have identified in the request of said application, in compliance with PCT Rule 4.10, any claim to foreign priority, and I have identified below, under the heading "Prior Applications," by application number, country or Member of the World Trade Organization, day, month and year of filing, any application for a patent or inventor's certificate filed in a country other than the United States of America, including any PCT international application designating at least one country other than the United States of America, having a filing date before that of the application on which foreign priority is claimed.

Prior Applications:

I hereby acknowledge the duty to disclose information that is known by me to be material to patentability as defined by 37 C.F.R. § 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the PCT international filing date of the continuation-in-part application.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name: Thomas P. McElwain Thomas P. McElwain 11/25/2003

Residence: 21 Sarah Drive, Merrimack, NH 03054
 (city and either US state, if applicable, or country)

Mailing Address: 21 Sarah Drive, Merrimack, NH 03054

Citizenship: USA

Inventor's Signature:
 (if not contained in the request, or if declaration is corrected or added under Rule 26ter after the filing of the international application. The signature must be that of the inventor, not that of the agent)

Date:
 (of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)

Name:

Residence:

(city and either US state, if applicable, or country)

Mailing Address:

Citizenship:

Inventor's Signature:
 (if not contained in the request, or if declaration is corrected or added under Rule 26ter after the filing of the international application. The signature must be that of the inventor, not that of the agent)

Date:
 (of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)

This declaration is continued on the following sheet, "Continuation of Box No. VII (iv)".